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Safe antibacterial solid particle - contains contact lens washing compsn. comprising detergent and antibacterial solid particle pref. chitosan porous bead

Patent Assignee: SEIKO EPSON CORP (SHIH)

Number of Countries: 001 Number of Patents: 001

Patent Family:

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JP 5142502 A 19930611 JP 91309208 A 19911125 G02C-013/00 199328 B

Priority Applications (No Type Date): JP 91309208 A 19911125

Patent Details:

Patent Kind Lan Pg Filing Notes Application Patent
JP 5142502 A 7

Abstract (Basic): JP 5142502 A

An antibacterial solid particle contains contact lens washing compsn. comprising a detergent and an antibacterial solid particle. The antibacterial solid particle shows antibacterial effect while it is stored in the washing compsn., and when it is used for washing, it shows a polishing effect. The antibacterial solid particle is pref. a chitosan porous bead or a bead contg. an antibacterial metal ion added ion exchanger.

An alternative antibacterial solid particle contains contact lens washing compsn., which contains a detergent and a chitosan porous bead as an antibacterial solid particle. The antibacterial solid particle shows antibacterial effect while it is stored in a washing compsn., and it shows polishing effect and metal chelating effect as a detergent component.

The content of the antibacterial solid particle is pref. 0.5 - 25 w/v%.

USE/ADVANTAGE - By using an antibacterial component, the microrganism mixed in the washing compsn. is killed or its growth is strictly suppressed. As no preservatives, which are harmful to a living body, are added, the washing compsn. is safe to use. As the antibacterial solid particle works as a polishing agent, sufficient washing power can be provided.

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Title Terms: SAFE; ANTIBACTERIAL; SOLID; PARTICLE; CONTAIN; CONTACT ; LENS ; WASHING; COMPOSITION; COMPRISE; DETERGENT; ANTIBACTERIAL; SOLID;

PARTICLE; PREFER; CHITOSAN ; POROUS; BEAD

Derwent Class: D22; P81

International Patent Class (Main): G02C-013/00

International Patent Class (Additional): C11D-003/48; C11D-017/06

File Segment: CPI; EngPI

02 H1 H181 K0 L7 L722 M210 M211 M212 M213 M214 M215 M216 M220 M221 M222
M223 M224 M225 M226 M231 M232 M233 M273 M283 M320 M416 M620 M640
M782 M903 M904 Q252 Q603 R023 R043 9602-D1602-M
03 H1 H103 H181 H5 H581 H8 M210 M211 M212 M272 M273 M281 M282 M316 M321
M331 M342 M383 M391 M416 M620 M640 M782 M903 M904 Q252 Q603 R023
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04 H4 H402 H482 H8 J0 J011 J2 J271 M210 M211 M212 M213 M214 M215 M216
M220 M221 M222 M223 M224 M225 M226 M231 M232 M233 M262 M281 M313
M321 M332 M343 M383 M391 M416 M620 M782 M903 M904 Q252 Q603 R023
R043 9602-D1604-M
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R043 R00123-M
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Food preservative - based on low mol.wt. chitosan

Patent Assignee: ASAHI SEIBUTSU KOGA (ASAHI-N)

Number of Countries: 001 Number of Patents: 002

Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Main IPC	Week
JP 4099474	A	19920331	JP 90214663	A	19900814		199219 B
JP 2642774	B2	19970820	JP 90214663	A	19900814		199738

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~~JP 4099474 A 199219 B~~

JP 2642774 B2 4 Previous Publ. JP 4099474

Abstract (Basic): JP 4099474 A

The preservative contains the low molecular wt. chitosan of mol.
wt. 6000-10000 which is obtd. by decomposing chitosan enzymically, as
the effective ingredient.

Chitosanase produced by Verticillium spAF9-V-156 strain (FERM